

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	1240	257/714	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 17:12
L3	4658	257/723	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 17:28
L4	2697	257/724	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 17:50
L5	6018	257/778	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 18:08
L6	3893	257/777	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 19:09
L7	4265	257/686	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 19:18
L8	1264	257/414	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 19:43

## EAST Search History

L9	1005	257/528	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 19:46
L10	1970	361/699	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 19:55
L11	1915	361/700	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 19:59
L12	321	361/701	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 20:17
L13	736	361/717	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 20:19
L14	906	361/718	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 20:24
L15	552	361/722	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 20:30

## EAST Search History

L16	1194	361/764	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 20:32
L17	5851	361/704	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 20:39
L18	999	361/705	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 20:51
L19	228	361/706	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 21:03
L20	2625	361/707	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 21:05
L21	429	361/708	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 21:11
L22	1697	361/709	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 21:15

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L23	1336	361/710	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 21:33
L24	1494	62/259.2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 21:39
L25	9	"62"/\$.ccls. and electroosmotic near pump	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 21:40
L26	23	"165"/\$.ccls. and electroosmotic near pump	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 21:41
L27	8	"438"/\$.ccls. and electroosmotic near pump	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 21:43
S1	13	BBUL or bumpless near (build near up or build-up)	USPAT	OR	ON	2007/06/13 12:10
S2	11	BBUL or bumpless near (build near up or build-up) and capacitor and pump	USPAT	OR	ON	2005/03/14 22:16
S3	2128	(semiconductor or die or chip or IC) and capacitor and (pump or electroosmotic) with (semiconductor or die or chip or IC)	USPAT	OR	ON	2005/03/14 22:19
S4	44	BBUL or bumpless near (build near up or build-up)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/14 22:16

## EAST Search History

S5	41	BBUL or bumpless near (build near up or build-up) and capacitor and pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/14 22:16
S6	2387	(semiconductor or die or chip or IC) and (capacitor or condenser or recombiner or re-combiner) and (pump or electroosmotic) with (semiconductor or die or chip or IC)	USPAT	OR	ON	2005/03/15 14:38
S7	18	S6 and (257/777 or 257/686)	USPAT	OR	ON	2005/03/14 22:21
S8	387	S6 and (257/777 or 257/686 or stack\$3)	USPAT	OR	ON	2005/03/14 22:21
S9	11	(semiconductor or die or chip or IC) and (capacitor or condenser or recombiner or re-combiner) and (electroosmotic) with (semiconductor or die or chip or IC)	USPAT	OR	ON	2005/03/14 22:39
S10	7	(semiconductor or die or chip or IC) and (capacitor or condenser or recombiner or re-combiner) and (electroosmotic) with pump	USPAT	OR	ON	2005/03/14 22:39
S11	16	(semiconductor or die or chip or IC) and (capacitor or condenser or recombiner or re-combiner) and (electroosmotic) same (semiconductor or die or chip or IC)	USPAT	OR	ON	2005/03/14 22:39
S12	286	(semiconductor or die or chip or IC) and ( condenser or recombiner or re-combiner) and (pump or electroosmotic) with (semiconductor or die or chip or IC)	USPAT	OR	ON	2005/03/15 19:15
S13	69	(semiconductor or die or chip or IC) with ( condenser or recombiner or re-combiner) and (pump or electroosmotic) with (semiconductor or die or chip or IC)	USPAT	OR	ON	2005/03/15 14:38
S14	217	S12 not S13	USPAT	OR	ON	2005/03/15 16:10
S15	0	"20030164231".pn. or "20030062149".pn.	USPAT	OR	ON	2005/03/15 16:11
S16	2	"20030164231".pn. or "20030062149".pn.	US-PGPUB; USPAT	OR	ON	2005/03/15 16:11
S17	1	"3923426".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:26
S18	1	"4009423".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:26

## EAST Search History

S19	1	"4067237".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:26
S20	1	"4067237".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:26
S21	1	"4120019".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:26
S22	1	"4120019".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:26
S23	1	"4151548".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:26
S24	1	"4312012".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:26
S25	1	"4392362".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:27
S26	1	"4450472".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:27
S27	1	"4516632".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:28
S28	1	"4561040".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:28
S29	1	"4561040".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:29
S30	1	"4567505".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:29
S31	1	"4573067".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:29
S32	1	"4638854".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:29
S33	1	"4675783".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:30
S34	1	"4697427".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:30
S35	1	"4758926".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:30
S36	1	"4829432".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:31
S37	1	"4858093".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:31
S38	1	"4868712".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:31
S39	1	"4894709".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:32
S40	1	"4908112".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:32

## EAST Search History

S41	1	"4938280".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:32
S42	1	"4938280".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:33
S43	1	"4951740".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:33
S44	1	"4975825".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:33
S45	1	"4975825".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:34
S46	1	"5010292".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:34
S47	1	"5016138".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:34
S48	1	"5057908".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:35
S49	1	"5070040".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:35
S50	1	"5083194".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:35
S51	1	"5096388".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:35
S52	1	"5099311".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:35
S53	1	"5099910".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:36
S54	1	"5125451".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:36
S55	1	"5131233".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:36
S56	1	"5131859".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:36
S57	1	"5144531".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:36
S58	1	"5162974".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:37
S59	1	"5199165".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:37
S60	1	"5203401".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:37
S61	1	"5216580".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:37
S62	1	"5218515".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:38

## EAST Search History

S63	1	"5219278".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:38
S64	1	"5229915".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:38
S65	1	"5230564".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:38
S66	1	"5232047".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:38
S67	1	"5239200".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:38
S68	1	"5263251".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:39
S69	1	"5274920".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:39
S70	1	"5281026".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:39
S71	1	"5309319".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:39
S72	1	"5311397".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:39
S73	1	"5313099".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:40
S74	1	"5317805".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:40
S75	1	"5325265".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:40
S76	1	"5336062".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:40
S77	1	"5339214".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:40
S78	1	"5365749".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:40
S79	1	"5383340".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:40
S80	1	"5427174".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:40
S81	1	"5436793".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:41
S82	1	"5459099".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:41
S83	1	"5461541".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:41
S84	1	"5471850".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:41



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S85	1	"5490117".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:41
S86	1	"5504650".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:42
S87	1	"5504924".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:42
S88	1	"5508234".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:42
S89	1	"5508908".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:43
S90	1	"5513070".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:43
S91	1	"5514832".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:44
S92	1	"5514906".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:44
S93	1	"5514906".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:44
S94	1	"5544412".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:44
S95	1	"5560423".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:44
S96	1	"5565705".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:45
S97	1	"5575929".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:45
S98	1	"5579827".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:45
S99	1	"5598320".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:45
S10 0	1	"5608262".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:45
S10 1	1	"5621635".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:46
S10 2	1	"5641400".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:46
S10 3	1	"5646828".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:46
S10 4	1	"5692558".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:47
S10 5	1	"5696405".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:47
S10 6	1	"5703536".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:47

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S10 7	1	"5704416".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:47
S10 8	1	"5727618".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:47
S10 9	1	"5759014".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:48
S11 0	1	"5763951".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:48
S11 1	1	"5774779".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:59
S11 2	1	"5801442".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:59
S11 3	1	"5835345".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:59
S11 4	1	"5836750".PN.	USPAT; USOCR	OR	OFF	2005/03/15 16:59
S11 5	1	"5858188".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:00
S11 6	1	"5863708".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:00
S11 7	1	"5869894".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:00
S11 8	1	"5870823".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:02
S11 9	1	"5880524".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:03
S12 0	1	"5901037".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:05
S12 1	1	"5901040".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:05
S12 2	1	"5940270".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:05
S12 3	1	"5942093".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:06
S12 4	1	"5965001".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:06
S12 5	1	"5965813".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:06
S12 6	1	"5978220".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:06
S12 7	1	"5997713".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:06
S12 8	1	"5998240".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:07

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S12 9	1	"6007309".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:07
S13 0	1	"6010316".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:07
S13 1	1	"6013164".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:07
S13 2	1	"6019882".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:07
S13 3	1	"6025208".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:07
S13 4	1	"6034425".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:08
S13 5	1	"6052287".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:08
S13 6	1	"6034425".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:08
S13 7	1	"6052287".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:09
S13 8	1	"6054034".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:09
S13 9	1	"6068752".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:10
S14 0	1	"6090251".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:10
S14 1	1	"6096656".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:10
S14 2	1	"6100541".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:10
S14 3	1	"6101715".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:10
S14 4	1	"6121682".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:11
S14 5	1	"6127726".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:11
S14 6	1	"6129145".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:11
S14 7	1	"6133631".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:11
S14 8	1	"6137693".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:12
S14 9	1	"6146103".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:13
S15 0	1	"6154363".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:13

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S15 1	1	"6171067".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:13
S15 2	1	"6174675".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:13
S15 3	1	"6176962".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:13
S15 4	1	"6186660".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:13
S15 5	1	"6191945".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:14
S15 6	1	"6201302".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:16
S15 7	1	"6204562".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:17
S15 8	1	"6215193".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:17
S15 9	1	"6215193".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:17
S16 0	1	"6216343".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:17
S16 1	1	"6221226".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:17
S16 2	1	"6227809".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:18
S16 3	1	"6234240".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:18
S16 4	1	"6238538".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:21
S16 5	1	"6268660".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:21
S16 6	1	"6277257".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:21
S16 7	1	"6278190".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:21
S16 8	1	"6285550".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:22
S16 9	1	"6287440".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:23
S17 0	1	"6297551".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:23
S17 1	1	"6301109".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:23
S17 2	1	"6313992".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:24

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S17 3	1	"6321791".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:24
S17 4	1	"6322753".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:24
S17 5	1	"6322753".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:24
S17 6	1	"6324058".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:25
S17 7	1	"6335566".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:25
S17 8	1	"6337794".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:26
S17 9	1	"6344682".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:26
S18 0	1	"6351384".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:26
S18 1	1	"6417060".PN.	USPAT; USOCR	OR	OFF	2005/03/15 17:28
S18 2	286	(semiconductor or die or chip or IC) and ( condenser or recombiner or re-combiner) and (pump or electro near osmotic) with (semiconductor or die or chip or IC)	USPAT	OR	ON	2005/03/15 19:15
S18 3	681	(semiconductor or die or chip or IC) and ( condenser or recombiner or re-combiner) and (pump or electro near osmotic) same (semiconductor or die or chip or IC)	USPAT	OR	ON	2005/03/15 19:15
S18 4	710	(semiconductor or die or chip or IC) and ( condenser or recombiner or re-combiner) and (pump or electro near osmotic) same (semiconductor or die or chip or IC)	USPAT; JPO	OR	ON	2005/03/15 19:26
S18 5	424	S184 not S182	USPAT; JPO	OR	ON	2005/03/15 19:16
S18 6	0	(semiconductor or die or chip or IC) and ( condenser or recombiner or re-combiner) and (pump with electro near osmotic) same (semiconductor or die or chip or IC)	USPAT; JPO	OR	ON	2005/03/15 19:27
S18 7	1	(semiconductor or die or chip or IC) and ( condenser or recombiner or re-combiner) and (pump with electro near osmotic)	USPAT; JPO	OR	ON	2005/03/15 19:27
S18 8	28	(semiconductor or die or chip or IC) and (pump with electro near osmotic)	USPAT; JPO	OR	ON	2005/03/16 14:30

## EAST Search History

S18 9	2885	257/686	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 15:38
S19 0	2348	257/724	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 15:51
S19 1	720	257/528	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 16:11
S19 2	1212	257/714	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 16:22
S19 3	3646	257/723	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 16:36
S19 4	4415	257/778	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 16:56
S19 5	2723	257/777	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 17:15
S19 6	924	257/414	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 17:35

## EAST Search History

S19 7	1443	361/699	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 17:46
S19 8	1333	361/700	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 17:59
S19 9	332	361/701	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 18:12
S20 0	4452	361/704	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 18:26
S20 1	865	361/705	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 19:33
S20 2	248	361/706	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 19:53
S20 3	2340	361/707	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 20:02
S20 4	405	361/708	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 20:20

## EAST Search History

S20 5	75744	(semiconductor or chip or die or IC) with (interposer or interconnect\$3 or redistribut\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 20:15
S20 6	36904	(semiconductor or chip or die or IC) with (interposer or interconnect\$3 or redistribut\$3)	USPAT	OR	ON	2005/03/16 20:15
S20 7	1186	S206 and 257/777	USPAT	OR	ON	2005/03/16 20:36
S20 8	1456	361/709	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 20:23
S20 9	1132	361/710	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 20:36
S21 0	749	361/717	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 20:45
S21 1	5754	S206 and (mother or top or upper) with (chip or die or IC or semicondcutor) and (daughter or lower or bottom) with (chip or die or IC or semicondcutor)	USPAT	OR	ON	2005/03/16 20:38
S21 2	607	S211 and 257/777	USPAT	OR	ON	2005/03/16 20:38
S21 3	864	361/718	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 20:52
S21 4	539	361/722	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 20:59
S21 5	1	"5012323".PN.	USPAT; USOCR	OR	OFF	2005/03/16 20:54



## EAST Search History

S21 6	1	"5299092".PN.	USPAT; USOCR	OR	OFF	2005/03/16 20:55
S21 7	1	"5471369".PN.	USPAT; USOCR	OR	OFF	2005/03/16 20:55
S21 8	1	"5471369".PN.	USPAT; USOCR	OR	OFF	2005/03/16 20:57
S21 9	1	"5502289".PN.	USPAT; USOCR	OR	OFF	2005/03/16 20:57
S22 0	1	"5523608".PN.	USPAT; USOCR	OR	OFF	2005/03/16 20:57
S22 1	1	"5545922".PN.	USPAT; USOCR	OR	OFF	2005/03/16 20:57
S22 2	1	"5615475".PN.	USPAT; USOCR	OR	OFF	2005/03/16 20:58
S22 3	1	"5640044".PN.	USPAT; USOCR	OR	OFF	2005/03/16 20:58
S22 4	1	"5646829".PN.	USPAT; USOCR	OR	OFF	2005/03/16 20:58
S22 5	1	"5677569".PN.	USPAT; USOCR	OR	OFF	2005/03/16 20:58
S22 6	1	"5724233".PN.	USPAT; USOCR	OR	OFF	2005/03/16 20:59
S22 7	1	"5757080".PN.	USPAT; USOCR	OR	OFF	2005/03/16 20:59
S22 8	52	("62"/\$.ccls. or "165"/\$.ccls. or "438"/\$.ccls.) and (electro near osmotic or electroosmotic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/16 21:02
S22 9	1	"5793101".PN.	USPAT; USOCR	OR	OFF	2005/03/16 21:02
S23 0	1	"5793108".PN.	USPAT; USOCR	OR	OFF	2005/03/16 21:03
S23 1	1	"5814881".PN.	USPAT; USOCR	OR	OFF	2005/03/16 21:03
S23 2	1	"5898220".PN.	USPAT; USOCR	OR	OFF	2005/03/16 21:06
S23 3	1	"6072243".PN.	USPAT; USOCR	OR	OFF	2005/03/16 21:06
S23 4	1	"6104084".PN.	USPAT; USOCR	OR	OFF	2005/03/16 21:06
S23 5	1	"6118184".PN.	USPAT; USOCR	OR	OFF	2005/03/16 21:07

## EAST Search History

S23 6	3012	257/686	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 20:06
S23 7	2849	257/777	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 21:01
S23 8	1	"60130854"	JPO	OR	ON	2005/08/04 20:07
S23 9	919	257/714	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 21:17
S24 0	3690	257/723	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 21:25
S24 1	3	"4184909".PN. OR "5292624".PN. OR "4721689".PN.	USPAT	OR	ON	2005/08/04 21:25
S24 2	0	(semiconductor or die or dice or IC or chip) same pump same catalytic near recomb\$4	USPAT	OR	ON	2005/12/21 13:58
S24 3	1	(semiconductor or die or dice or IC or chip) and pump same catalytic near recomb\$4	USPAT	OR	ON	2005/12/21 17:19
S24 4	1	(semiconductor or die or dice or IC or chip) and pump same catalytic near recomb\$4	USPAT	OR	ON	2005/12/21 17:19
S24 5	1	S244 and (semiconductor or die or dice or IC or chip) and pump and catalytic near recomb\$4	USPAT	OR	ON	2005/12/21 18:27
S24 6	3203	257/686	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/21 18:41

## EAST Search History

S24 7	2268	257/724	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/21 18:41
S24 8	3	257/e23.098	USPAT	OR	OFF	2007/03/06 19:28
S24 9	3	257/e23.098	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/10 14:03
S25 0	1050	257/714	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/03/06 19:28
S25 1	1	"6942018".pn.	USPAT	OR	ON	2007/03/06 18:04
S25 2	8	257/e23.098	USPAT	OR	OFF	2007/03/06 19:28
S25 3	1196	257/714	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/06 19:31
S25 4	2611	257/724	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/06 19:31
S25 5	12	257/E23.098	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 12:24
S25 6	7	257/E23.106	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 12:25

## EAST Search History

S25 7	10	"438"/\$.ccls. and electroosmotic near pump	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 12:28
S25 8	9	"62"/\$.ccls. and electroosmotic near pump	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 12:28
S25 9	28	"165"/\$.ccls. and electroosmotic near pump	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 12:29
S26 0	3287	257/706	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 12:31
S26 1	2459	257/707	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 12:31
S26 2	12	257/E23.098	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 14:02
S26 3	7	257/E23.106	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 14:03

## EAST Search History

S26 4	3287	257/706	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 14:04
S26 5	2459	257/707	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 14:19
S26 6	3128	257/712	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/13 16:45